

State Transportation Commission Director's Report July 22, 2021

Director Paul C. Ajegba, P.E.
Michigan Department of Transportation



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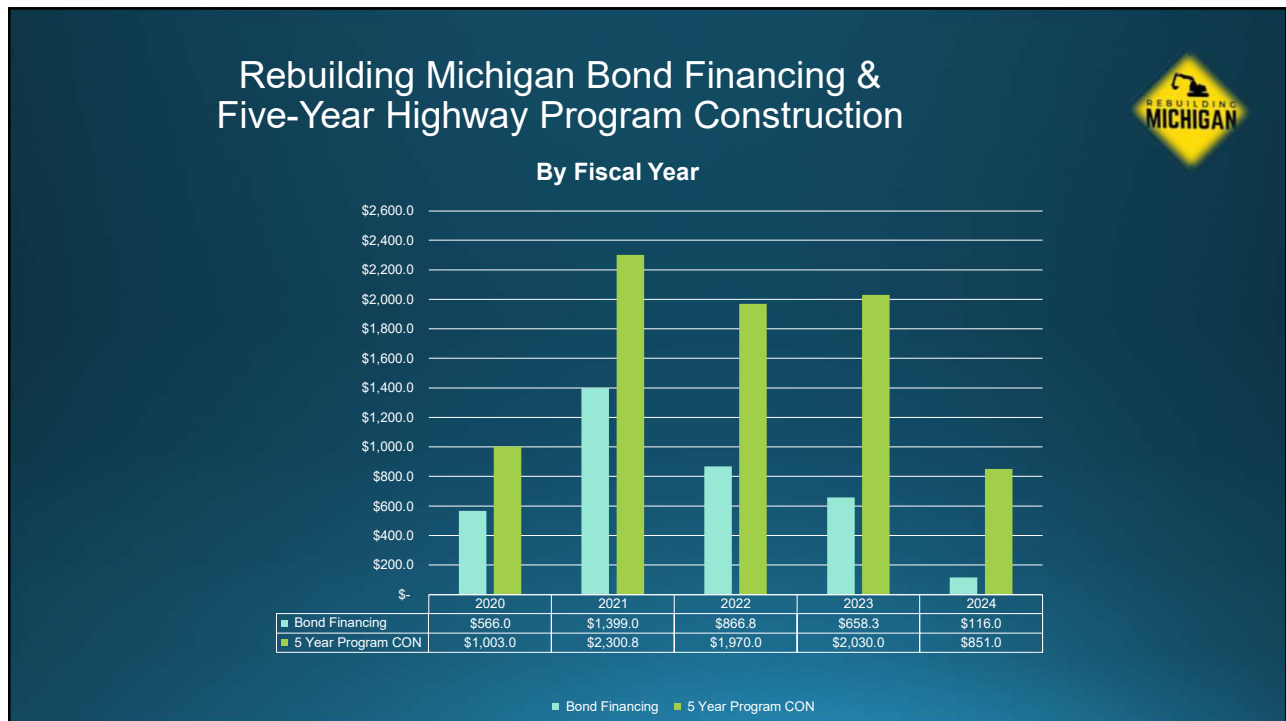
Today's Topics

- Rebuilding Michigan
- Metro Region Flooding
- I-75 Tanker Fire
- American Jobs Plan

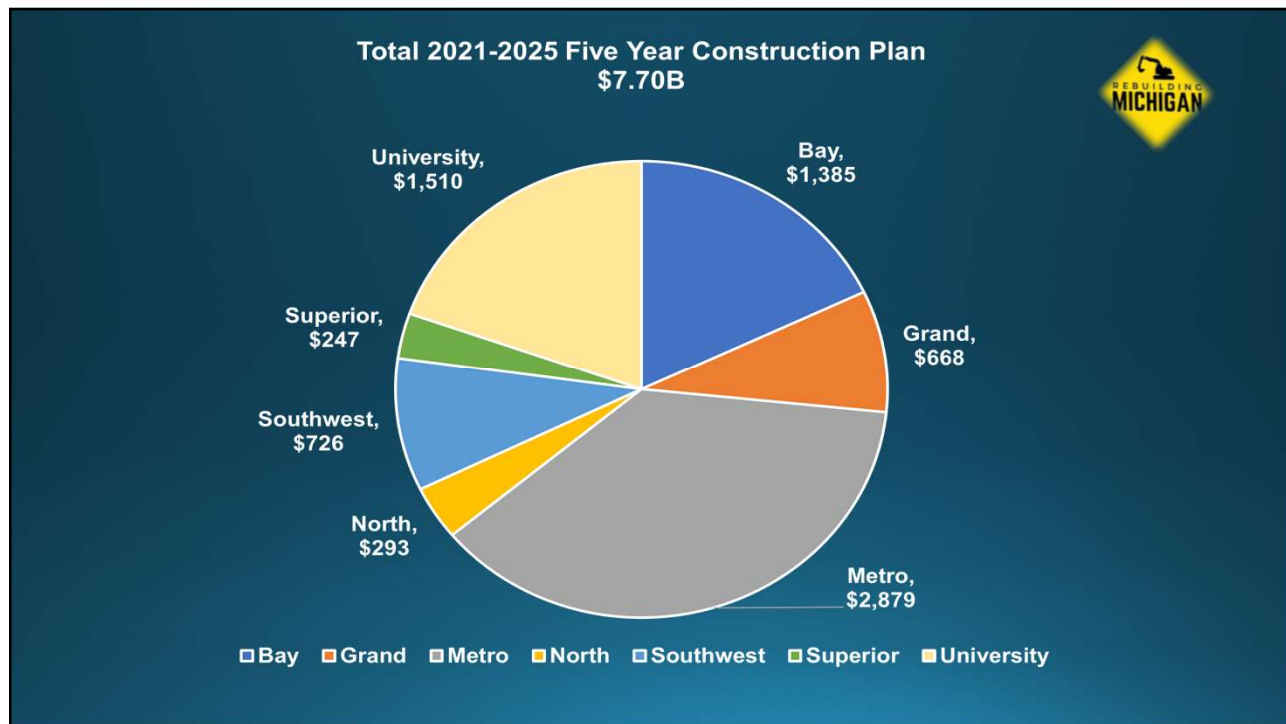
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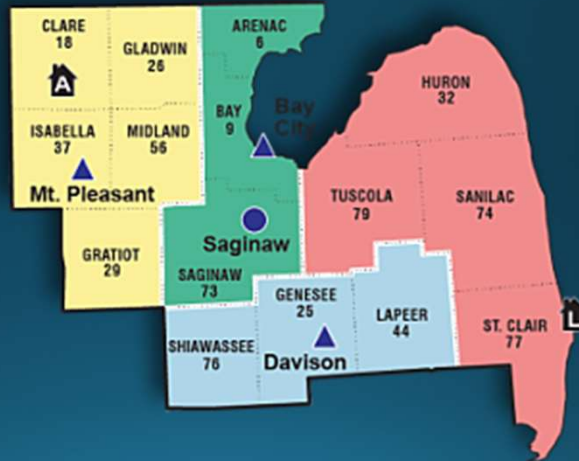
Projects Utilizing Bond Funds

Region	Major Route (Report)	Location (Report)	Letting	Engineer Estimate	Low Bid	Savings*	Percentage
University	I-496	I-96 to Lansing Road	2/21/2020	\$52,232,908.33	\$47,817,642.22	\$4,415,266.11	-8.45%
SW/Uni.	I-69	I-69 Corridor	7/24/2020	\$214,129,045.00	\$210,180,169.69	\$3,948,875.31	-1.84%
Southwest	I-94 & US-31	Berrien County	6/19/2020	\$133,130,299.00	\$121,483,900.00	\$11,646,399.00	-8.75%
University	I-94	I-94 Near Jackson	10/30/2020	\$97,350,893.92	\$117,137,913.01	(\$19,787,019.09)	20.33%
Bay	I-69 E	Cox Doty Drain to M-19	1/8/2021	\$46,759,163.64	\$37,806,489.95	\$8,952,673.69	-19.15%
Grand	I-196 S	From 130th Avenue north to US-31	2/5/2021	\$35,209,172.87	\$31,520,522.97	\$3,688,649.90	-10.48%
Metro	M-59 W	Romeo Plank to I-94	2/5/2021	\$61,343,654.73	\$60,974,226.42	\$369,428.31	-0.60%
Bay	I-69	Fenton Road to M-54	3/5/2021	\$80,685,546.16	\$100,196,390.96	(\$19,510,844.80)	24.18%
Metro	I-275	Northline Road to 5 Mile Road	5/7/2021	\$279,325,744.56	\$256,892,162.12	\$22,433,582.44	8.03%
University	I-69	I-96 to Airport Road	6/30/2021	\$67,536,731.84	\$64,539,405.25	\$2,997,326.59	4.44%
				\$1,067,703,160.05	\$1,048,548,822.59	\$19,154,337.46	1.79%

* Savings relates to all JNs within the contract, not just bond savings

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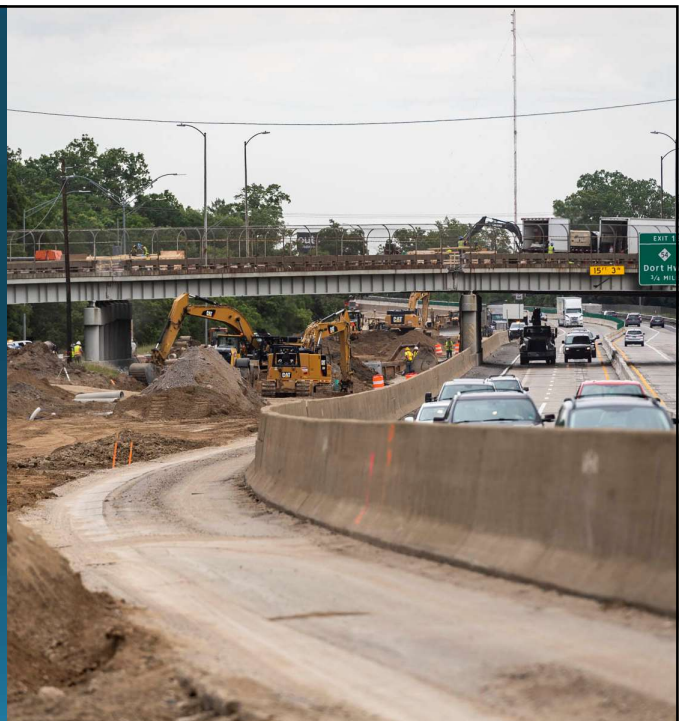
Bay Region



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Genesee County I-69 Fenton Road to M-54 Dort Highway in Flint

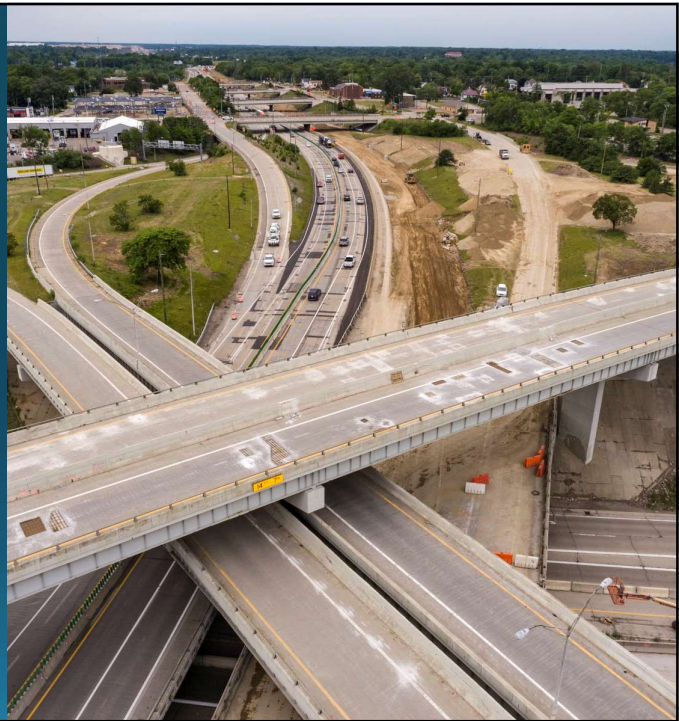
- This is a photo from the project looking east toward the Lapeer Road bridge over I-69.
- Original bid was at \$100,196,390.96
- Current Completion date for major construction is October 15, 2022.
- Prime Contractor is Dan's Excavating, with CA Hull completing the bridge work and Ajax Paving doing the concrete paving.



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Genesee County I-69 Fenton Road to M-54 Dort Highway in Flint

- This is a photo of the triple stack interchange in the middle of the project at the interchange for I-69 and I-475. Looking west toward Lansing.
- The project is a complete reconstruct and replacement with at 10 ½ inch concrete pavement.
- It also includes work on 18 bridges, some with CPM type patching work to full deck replacements.
- As noted in the picture you can see some of the deck patches in the top structure.



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PROJECT PROFILES

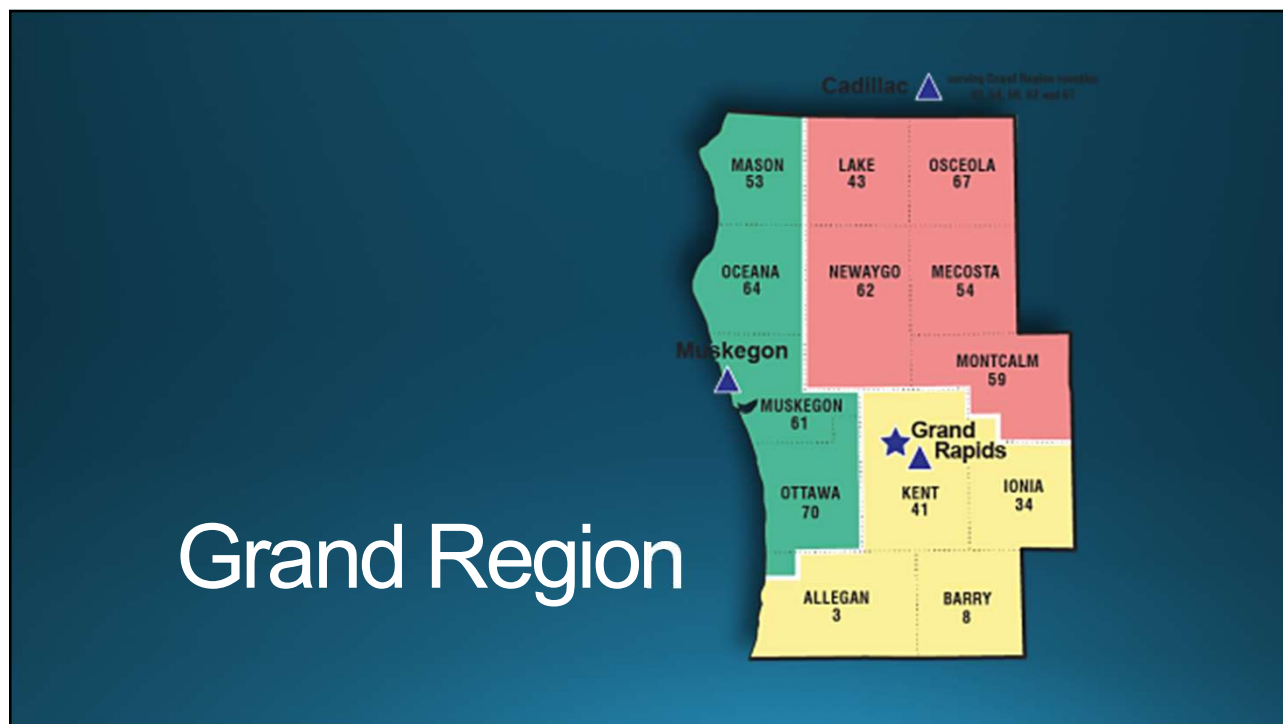
I-69 Genesee County

Gov. Gretchen Whitmer's Rebuilding Michigan program invests in state highways and bridges critical to the state's economy.



- Rebuilding nearly 2.5 miles of I-69 from Fenton Road to M-54
- \$100 million investment - 1,270 jobs supported
- April 2021 - November 2022
- Important route for commuter, commercial, and tourism traffic

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Allegan County I-196 WB from 130th Ave to US-31

- Total Project Cost: \$33,580,523
- Start Date: March 2021
- Road Completion Date: November 2021
- Roadway rebuilding with culvert replacement, rest area improvements, and bridge repairs

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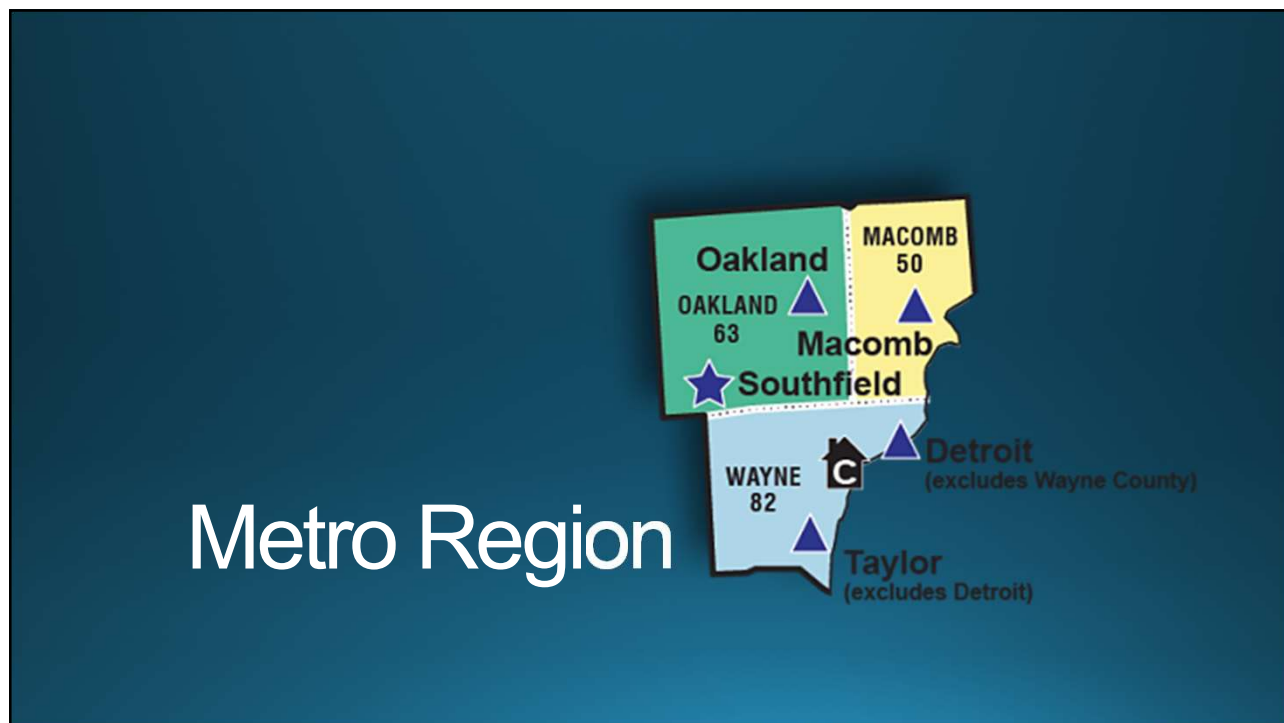
PROJECT PROFILES
I-196 Allegan County

Gov. Gretchen Whitmer's Rebuilding Michigan program invests in state highways and bridges critical to the state's economy.

MDOT
Michigan Department of Transportation

- Rebuilding 12 miles of southbound I-196 from Holland to Saugatuck
- \$34 million investment
- Supports 430 jobs
- March - November 2021
- Important route for commuter, commercial, and tourism traffic

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Wayne & Monroe Counties I-275

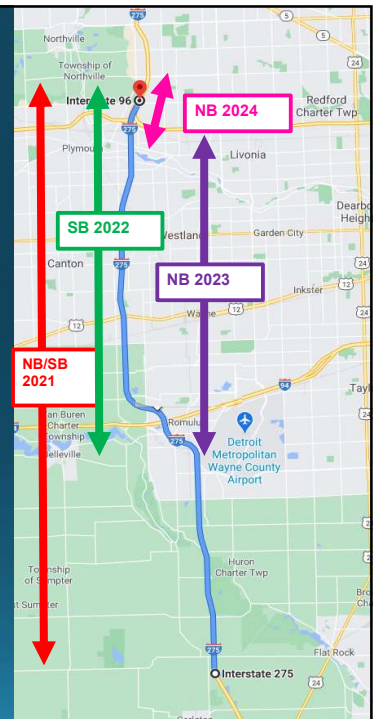
- Cost: \$256.9 million
- Location: I-275 from Will Carleton Road to 6 Mile Road
- Dates: July 6, 2021 – Summer 2024
- Description: 23.23 miles of road reconstruction and concrete pavement repairs including guardrail replacement, signal upgrades, signing, pavement markings, and bridge rehabilitation on 65 structures.



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I-275 Corridor Timeline

- **2021**
 - I-275 (Will Carlton Road to Northline Road)
 - Repair 10 miles of concrete pavement
 - One lane of I-275 open in each direction
 - I-275 (Northline Road to Five Mile Road)
 - Culvert replacements and temporary pavement
 - Two lanes of I-275 open in each direction
- **2022**
 - SB I-275 (Northline Road to Five Mile Road)
 - Rebuild 14 miles
 - Two lanes of I-275 open in each direction
- **2023**
 - NB I-275 (Northline Road to M-14)
 - Rebuild 13 miles
 - Two lanes of I-275 open in each direction
- **2024**
 - NB I-275 (M-14 to Five Mile Road)
 - Rebuild 1 mile
 - Two lanes of I-275 open in each direction



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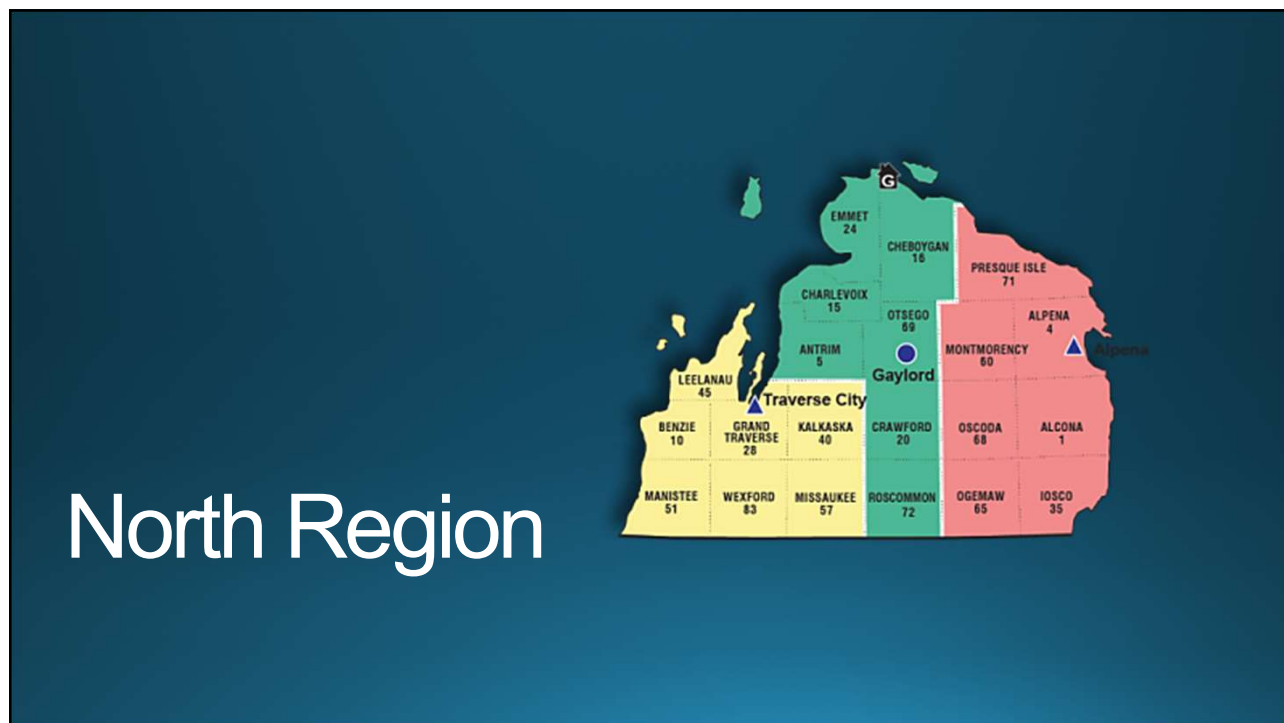
PROJECT PROFILES
I-275 Wayne County

Gov. Gretchen Whitmer's Rebuilding Michigan program invests in state highways and bridges critical to the state's economy.

MDOT
Michigan Department of Transportation

- Repairing and rebuilding 24 miles between Will Carlton Road and 6 Mile Road, resurfacing four interchanges, rebuilding parts or all of six interchanges, and improving 65 bridges
- \$270 million investment
- Supports 3,429 jobs
- July 2021 - November 2024
- Important route for commuter, commercial and airport traffic

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Kalkaska County M-72

- \$13 million investment
 - Supports 165 jobs
- May-July 2021 construction (continued from 2020)
- Rebuilding nearly 17 miles of M-72 from US-131 to the Crawford county line.



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PROJECT PROFILES

M-72 Kalkaska County

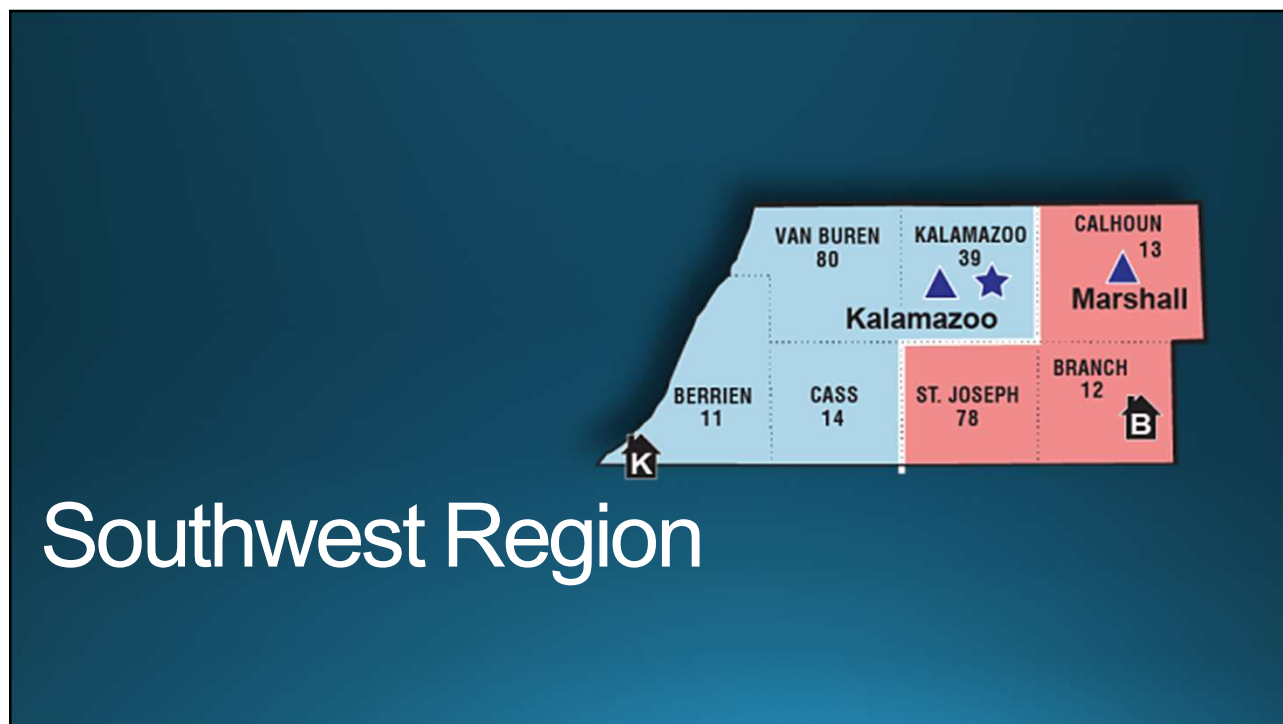
*Gov. Gretchen Whitmer's
Rebuilding Michigan
program invests in
state highways and
bridges critical to the
state's economy.*





- Rebuilding nearly 17 miles of M-72 from US-131 to the Crawford county line
- \$13 million investment
 - Supports 165 jobs
- May – July 2021 construction (continued from 2020)
- Important route for commuter, commercial, and tourism traffic

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Berrien County US-31 / I-94 Interchange, US-31 Connection and I-94 Reconstruction

- Cost: \$121,483,900
- Estimated Completion Date: May 2023







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PROJECT PROFILES
I-94 Berrien County

Gov. Gretchen Whitmer's Rebuilding Michigan program invests in state highways and bridges critical to the state's economy.

MDOT
Michigan Department of Transportation

- Rebuilding 3.5 miles of I-94 from Britain Avenue to east of I-196, including the new I-94 BL/US-31 interchange
- \$94 million investment
- Supports 1,206 jobs
- April 2021 to May 2023
- Important route for commuter, commercial, and tourism traffic

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University Region

CLINTON 19
EATON 23
INGHAM 33
JACKSON 38
HILLSDALE 30
LENAAWEE 46
LIVINGSTON 47
WASHTENAW 81
MONROE 58

Lansing
Brighton
Jackson

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Jackson County I-94



- Construction Cost: \$117 million
- 3.7 miles of pavement rebuilding and resurfacing on I-94 from Airport Road to east of Elm Road
- A Diverging Diamond Interchange (DDI) will be installed at I-94/US-127 (West Ave.)
- Three (3) roundabouts will be installed at the I-94/Elm Road interchange to improve safety and operations
- Installing Pedestrian tunnel under US-127

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PROJECT PROFILES


I-94 Jackson County

Gov. Gretchen Whitmer's Rebuilding Michigan program invests in state highways and bridges critical to the state's economy.





- Rebuilding nearly 8 miles of I-94 in Blackman and Leoni Township
- \$120 million investment - 1,524 jobs supported
- March 2021 - June 2023
- Significant local, national, and international trade corridor

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Eaton/Calhoun County I-69 from I-94 to Island Hwy

- Construction Cost: \$210 million
 - Majority of the funding source is Rebuilding Michigan
- 24-mile project length includes:
 - 22 miles of full depth roadway rebuilding with an asphalt pavement section
 - Rebuilding of all interchange ramps within the project limits
 - Rebuilding of I-69/I-94 interchange
 - Preventative maintenance on 26 bridges and 1 bridge replacement
 - Preventative maintenance at 2 rest areas
 - 2 miles of concrete patching preventative maintenance on I-69 near the I-94 interchange
- Project was originally programed as 4 separate jobs over 8 years, combined into one contract to be built over 3 years (2021, 2022, and 2023)
- Traffic Impacts: One lane maintained in each direction on I-69 via temporary crossovers to complete major construction

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PROJECT PROFILES

I-69 Calhoun/Eaton Counties

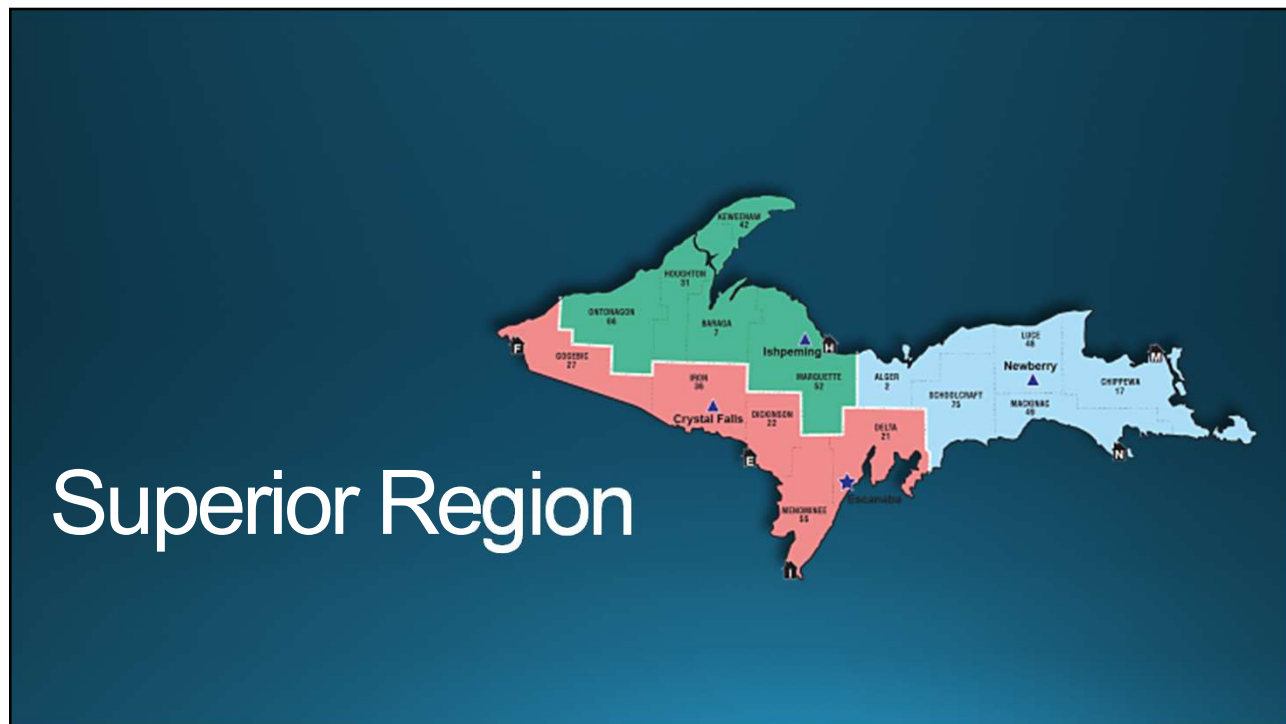
Gov. Gretchen Whitmer's Rebuilding Michigan program invests in state highways and bridges critical to the state's economy.






- Rebuilding 25 miles of I-69 between Marshall and Charlotte
- \$210 million investment - Supports 2,667 jobs
- September 2020 - November 2023
- Important route for commuter, commercial, and tourism traffic

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Chippewa County I-75

- Cost: \$9.1 million
- Location: I-75 from north of M-80 to north of M-28 in Chippewa County
- Estimated Completion Date:
Thursday, Oct. 15, 2021
- Description: Resurface 8.4 miles of I-75. Work includes cold milling, asphalt resurfacing, joint repairs, culverts, ramp extensions, guardrail, and pavement markings. This project is being built several years ahead of time as part of the Rebuilding Michigan bonding program. One lane will be open in each direction with traffic shifts.



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PROJECT PROFILES
I-75 Chippewa County

Gov. Gretchen Whitmer's Rebuilding Michigan program invests in state highways and bridges critical to the state's economy.


MDOT
Michigan Department of Transportation

- Resurfacing 8.4 miles from M-80 to north of M-28
- \$9.1 million investment - Supports 116 jobs
- May - October 2021
- An important route for commuter, commercial and tourism traffic

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FY22 Budget

- **Governor's FY22 Budget**
- Bridge bundling program:
 - \$300M to fix some of the most dangerous and closed bridges across the state

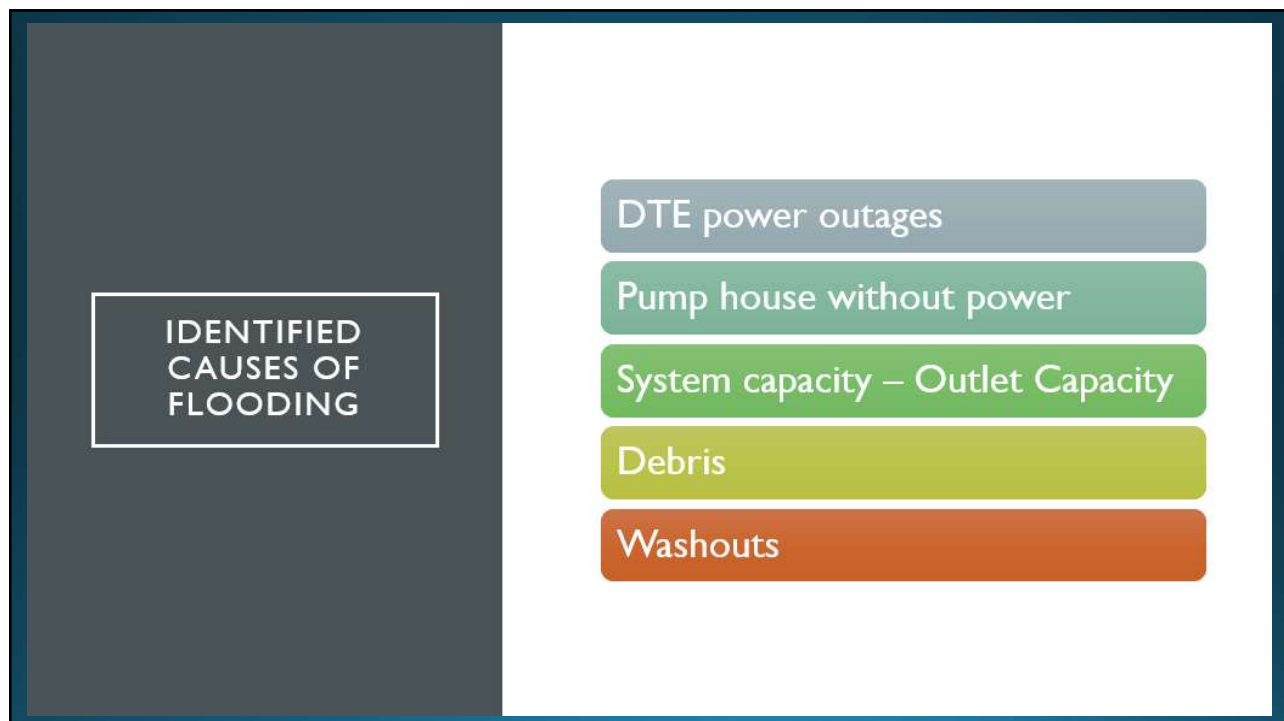


LEGEND
N
Closed Bridges

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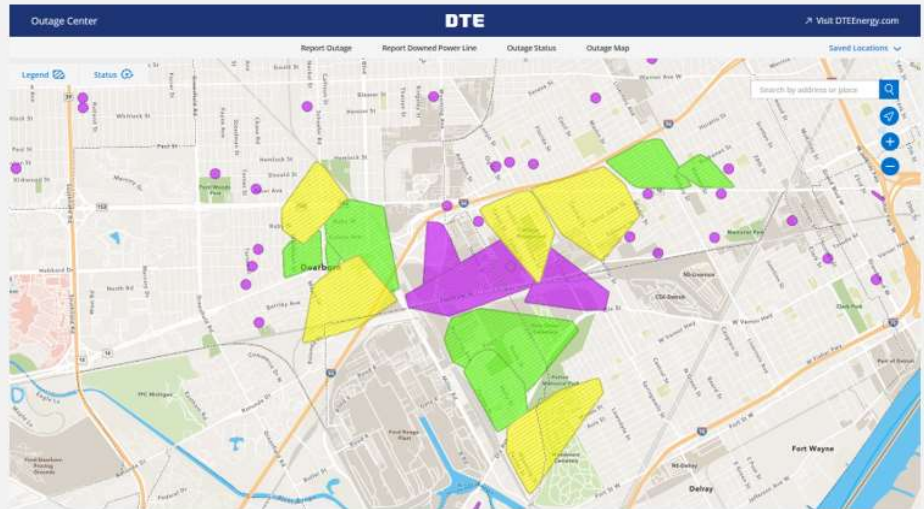
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Weather Summary



- According to the National Weather Service some spots in the region received 6.5 inches of rain in the 24-hour period between Friday evening and Saturday afternoon
- That amount of rainfall would be categorized by the National Oceanic and Atmospheric Administration (NOAA) **between 200-year and 500-year storm.**
- According to DTE over 88,000 customers lost power due to the storm

DTE Power Outage Map (Saturday, June 26, 2021)

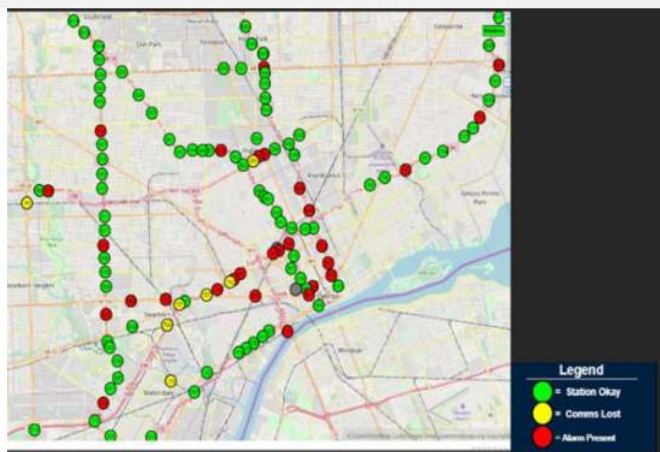


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Status of MDOT Pumpstations (SCADA snapshot)

- DTE Supplies power to all MDOT pumpstations
- 28 MDOT pumpstations lost power due to the storm
- There were no Mechanical failure to any pumpstations.
- By 4 am Saturday morning, MDOT had 13 road closures due to flooding. By Saturday mid-morning MDOT had total of 33 closures.
- Portable generators (only 3) were taken to pumpstation sites without power.

Saturday,
June 26,
11:01 AM
SCADA Map



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TRAFFIC CONTROL AND INCIDENT MANAGEMENT



Resources used

MDOT
County Forces
FCP
MSP

Resource challenges

Available Equipment/trucks/Stuff
Multiple critical areas in a short time span
Access to areas needing additional resources
Generators for sites without power
Clearing debris in deep water
Drainage Outlets/creeks/streams were at capacity
Pumped water was coming back to the system
Traffic Control device accessibility

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METRO REGION FLOODING

I-94



I-75



M-10



M-39



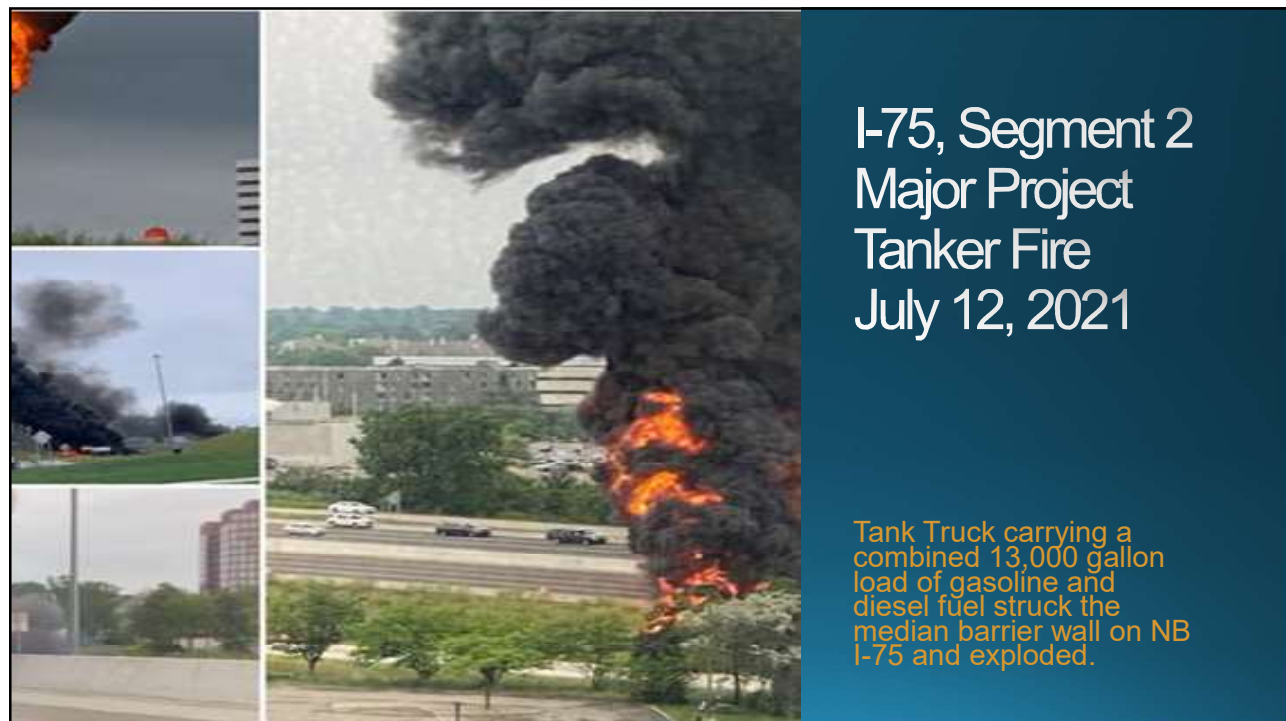
I-96



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I-75 Segment 2 Major Project Tanker Fire July 12, 2021

- Tanker Truck carrying a combined load of gasoline and diesel fuel struck the median barrier wall on NB I-75, south of Big Beaver Road
- Vehicle ignited upon impact and continued to burn after coming to a stop
- Fire reported at 1:15 p.m.
- Troy PD and Oakland County Hazmat responded to extinguish the fire and contain the firefighting runoff and fuel spill
- Fire out at 3:26 p.m.
- Trucking company contacted M.L. Chartier to begin the environmental cleanup
- M.L. Chartier and Hazmat left the scene at 11:13 p.m.

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I-75 Segment 2 Major Project Tanker Fire July 12, 2021

- Extent of Damage and work required:
- Pavement Removal and Replacement
- Barrier Removal and Replacement
- Ditch Cleanout
- Disposal of Contaminated Hazardous Material
- Excavation and Embankment
- Sewer video inspection, removal and replacement
- Temporary concrete barrier and Maintenance of Traffic
- Preliminary Estimate, \$1.5 million

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Roads and Bridges

In Michigan there are 1,219 bridges and over 7,300 miles of highway in poor condition. Since 2011, commute times have increased by 4.6% in Michigan and on average, each driver pays \$644 per year in costs due to driving on roads in need of repair.

The American Jobs Plan will devote more than \$600 billion to transform our nations' transportation infrastructure and make it more resilient, including \$115 billion repairing roads and bridges.



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Public Transportation

Michiganders who take public transportation spend an extra 67.7% of their time commuting and non-White households are 5.6 times more likely to commute via public transportation.

Seventeen percent (17%) of trains and other transit vehicles in the state are past useful life. The American Jobs Plan will modernize public transit with an \$85 billion investment.



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Resilient Infrastructure

From 2010 to 2020, Michigan has experienced 19 extreme weather events, costing the state up to \$5 billion in damages.

The President is calling for \$50 billion to improve the resiliency of our infrastructure and support communities' recovery from disaster.



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Clean Energy Jobs

As of 2019, there were 125,365 Michiganders working in clean energy.

The American Jobs Plan invests in creating more good paying union jobs, advancing clean energy production by extending and expanding tax credits for clean energy generation, carbon capture and sequestration and clean energy manufacturing.



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Questions?

